

State of Rew Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT
CN 028
Trenton, N.J. 08625-0028
(609) 633-7141
Fax # (609) 633-1454

MAY 2 5 1990

86655

Mr. S. A. Savitt Savitt and Associates 1050 Beerge St. New Brunswick, NJ 08901

RE: Biddleman, Inc. 4 Central Ave. Lot 32, Block 9

West Orange Township, Essex County

#N61436 Rescinded

Dear Mr. Savitt:

On June 9, 1986 the Department informed your attorney Michael Gordon that the cessation of operations at the above referenced facility was subject to ECRA. On the basis of additional information represented in the affidavit of Murray J. Biddelman the Department rescinds the decision of June 9, 1986.

This decision is made on the basis that the above referenced facility is not an industrial establishment as defined by the Act. Please be advised however, due to the on-site contamination which exists at the property, this case is being referred for enforcement action under other Environmental Statutes including but not limited to Spill Compensation & Control Act, Solid Waste Management Act and Water Pollution Control Act. Further any inaccuracies in the affidavit or subsequent changes in the facts stated therein could alter the Department's determination.

The inappliability of the Environemental Cleanup Responsibility Act (ECRA) to this transaction does not relieve the above referenced of any responsibilies under any other environmental statutes, regulations or permits.

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APPENDIX 5

1.0 INTRODUCTION

The following presents the soil sampling and analysis plan developed for Biddelman Incorporated located at 4 Central Avenue, West Orange, NJ. The program detailed below addresses the pertinent regulatory requirements of the New Jersey Environmental Clean-up Responsibility Act (ECRA) specifically Item 14 of the regulations developed by the New Jersey Department of Environmental Protection (NJDEP). The purpose of the plan is to determine the horizontal and vertical extent of any contamination originating from facility operations.

2.0 ENVIRONMENTAL SETTING

2.1 Facility History and Setting

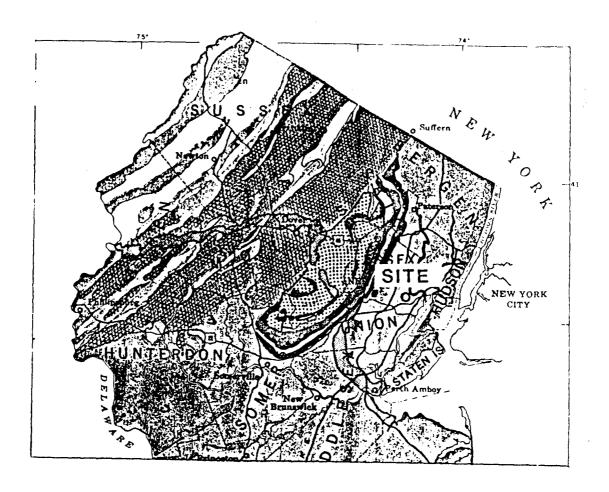
Biddelman Incorporated occupies a two-story brick structure that is approximately 50 years old. The site, located at 4 Central Avenue, West Orange, NJ, has about 30,000 square feet of space and sits at the foot of the Watchung Mountains (Figure 5.1). The major land uses in the study area are urban, industrial, commercial, and residential. The closest residential area is located south-southwest of the property. No public or private water wells are located within 1/4-mile of the site.

The company is engaged in the wholesale distribution of dry goods and dry cleaning supplies. The materials and chemicals involved in this business range from organic solvents for spotting to perchlor for drycleaning. A more complete description of the operation is described in Appendix 2, Item 10 of the Site Evaluation Submission.

2.2 Site Map and Soils Description

Approximately one-half of the property area is paved; the remaining area is covered by the building, (see Figure 5.2). The entire site area was filled with cinders and gravel in order to provide for a stable foundation, the fill material is about 2 to 3 feet in thickness.

The soils beneath the surface overburden are comprised of poorly sorted, fine to medium silty sands and sands with dense clay and gravels. The soils in the site are included in the Montello series during Engineering Soil Survey conducted by Rutgers University (Engineering Soil Survey of New Jersey, Report No. 2, Rutgers University, 1955). Surface drainage of the soils is good, but internal drainage is poor.



GEOLOGIC MAP

OF

NEW JERSEY

1959

Scale: 1=1,000,000 (approx.)

Miles

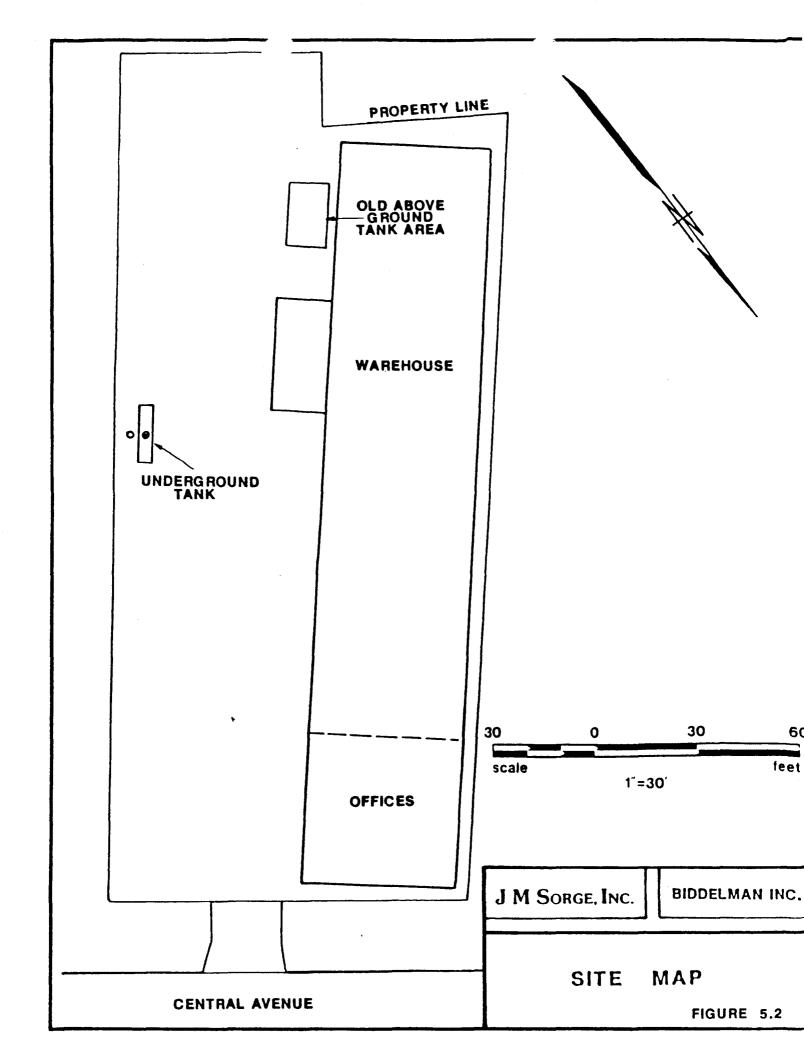
REVISED 1977

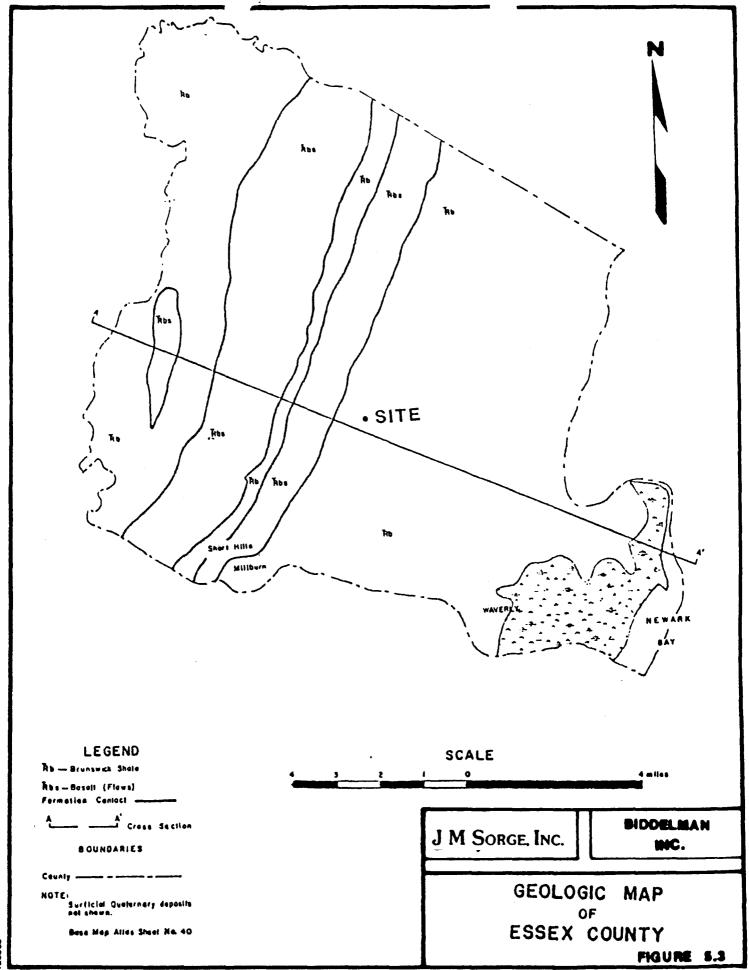
J M Sorge, Inc

BIDDELMAN INC.

SITE LOCATION MAP

FIGURE 5.1





2.3 Geology, Hydrogeology and Surface Drainage

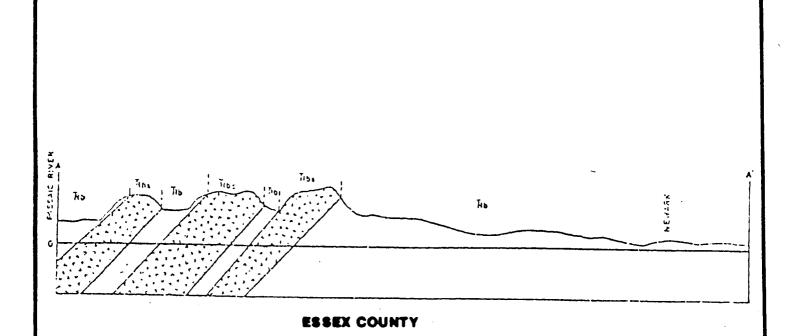
Regional Geology/Hydrogeology

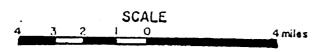
The Brunswick Formation and Watchung Basalt of the Newark Group of Late Triassic age underlies Essex County. The Brunswick Formation, the uppermost unit of the Newark Group, consists dominantly of interbedded brown, reddish-brown, and gray shale, sandy shales, sandstone and some conglomerate. The total thickness of the Brunswick Formation exceeds 6,000 feet. The Watchung Basalt consists of three extensive sequences of lava flows intercalated with the shale and sandstone of the Brunswick Formation. The generalized bedrock geologic map (Figure 5.3) shows the areal extent of the rocks of Triassic age underlying Essex County. A geologic cross-section is presented in Figure 5.4. Overlying the rocks of the Newark Group are unconsolidated clay, sand, and gravel deposits of the Pliestocene and Recent Age. The Pliestocene deposits are the most widespread and are found throughout the county. Recent deposits are confined to present day stream These glacio-fluvial unconsolidated deposits of Pliestocene and Recent age are as much as 300 feet in thickness. In the areas between valleys, where the bedrock surface is high, it ranges between 0 to 70 feet.

Rocks of the Brunswick Formation are the main source of the groundwater in Essex County. The shales and sandstones are generally capable of sustaining moderate to large yields. Wells in sandstone and shale of the Brunswick Formation yield from 35 to 820 gpm; the most productive water-bearing zones are commonly between depths of 300 to 400 feet. Draw down due to pumping is greatest in the strike-direction (approximately N 30° E) and least in the direction perpendicular to strike.

Site Specific Geology/Hydrogeology

The soil boring information from the earlier investigations by others at the site indicate that a fill layer consisting of cinders and gravel occur to a depth of about 3 to 4 feet below grade. This fill layer is underlain by an intermittent clay to silty/sandy clay strata which in turn, appears to grade to a fine to medium sand and subangular to subrounded gravel. These types of deposits are common in the site area owing to glaciofluvial depositional processes. No groundwater was encountered during the soil boring program. Based on analysis of NJDEP well records for the site area, groundwater occurs at a depth of 25 to 27 feet below grade.





Horizontal Scale: L3"=4Mlles

Vertical 1"=200 Feet

LEGEND

Rb Brunswick Formulion
Rbs Bosolt Flow

J M Sorge, Inc.

BIDDELMAN

MIC.

GEOLOGIC CROSS SECTION
OF ESSEX COUNTY

New Jarsey Geological Survey 1974

FIGURE 5.4

ducted by others, indicated the presence of oil contamination at the location of boring PHI (see Figure 5.6). The following plan is designed to determine if contamination is present, since the validity of the previous sample is in question. And to determine if any oil present is related to the abandoned tank or to offsite operations.

JMS will install boring PH1 using the impact soil sampler previously discussed. Split spoon samples will be taken at 2 foot intervals to a depth of 6 feet or the 2 feet beyond the depth of non-detection using the Hnu meter. If the presence of oil is indicated based on observations or Hnu readings, an additional 3 borings will be conducted as shown on the site map. One sample will be selected from each boring at a depth of one foot or corresponding to the depth of the maximum Hnu and visual contamination level if any. If significant levels of contamination are indicated additional samples will be required to delineate the extent of the problem. All samples obtained for laboratory analysis will be analyzed for petroleum hydrocarbon content.

The proposed sampling plan is summarized in Table 1 for your reference.

TABLE 1
SAMPLING PLAN SUMMARY TABLE

Tank Filling Are	a	
Boring	Sample Depth (feet)	Analytic Parameters
Cl	1 7 Hnu Det +2'*	Priority Pollutants Volatile Organics Volatile Organics
Bl	Max Hnu** Hnu Det +2**	Volatile Organics Volatile Organics
В2	Max Hnu** Hnu Det +2**	Volatile Organics Volatile Organics
В3	Max Hnu** Hnu Det +2**	Volatile Organics Volatile Organics
B 4	Max Hnu** Hnu Det +2'*	Volatile Organics Volatile Organics
В5	Max Hnu** Hnu Det +2'*	Volatile Organics Volatile Organics
BKl	3' Max Hnu**	Volatile Organics Volatile Organics
BK2	3' Max Hnu**	Volatile Organics Volatile Organics
В6	Max Hnu**	Volatile Organics
В7	Max Hnu**	Volatile Organics
В8	Max Hnu**	Volatile Organics
В9	Max Hnu**	Volatile Organics

TOTAL SAMPLES: 20 Volatile Organics 1 Priority Pollutants

TOTAL BORINGS: 12

*Note: Hnu Det +2' - Corresponds to 2 feet beyond the depth at which contamination is no longer detected by the Hnu.

**Note: Max Hnu - Corresponds to the depth associated with the maximum reading from the Hnu in this borehole.

SAMPLING PLAN SUMMARY (Continued)

Petroleum Hydrocarbons Boring	Sample Depth	Analytic	Parameters
PHl	l' Max Hnu*		Hydrocarbons Hydrocarbons
PH 2	Max Hnu*	Petroleum	Hydrocarbons
РН 3	Max Hnu*	Petroleum	Hydrocarbons

Max Hnu*

TOTAL SAMPLES: 6 Petroleum Hydrocarbons

Petroleum Hydrocarbons

TOTAL BORINGS: 4

PH4

*Note: Max Hnu - Corresponds to the depth associated with the maximum reading from the Hnu in this borehole.

APPENDIX 4 PRODUCTS CONTAINING HAZARDOUS SUBSTANCES

PRODUCT NAME	HAZARDOUS SUBSTANCES	CONTAINE SIZE	CR CLOSING INVENTORY *
ADCO, INC.			
AMERICAN P.O.G. REMOVER	AROMATIC HYDROCARBONS AMYL ACETATE POTASSIUM HYDROXIDE PETROLEUM DISTILLATES AROMATIC HYDROCARBONS	1 GAL	15
AMYL ACETATE	AMYL ACETATE	20 GAL	3
BOILER COMPOUND	POTASSIUM HYDROXIDE	1 GAL	9
		20 GAL	2
FASHION FINISH	PETROLEUM DISTILLATES	1 GAL	8
		6 GAL	3
KNOCKOUT	AROMATIC HYDROCARBONS 1,1,1 TRICHLOROETHANE	1 GAL	5
PURO	1,1,1 TRICHLOROETHANE	I GAL	7
	CHLORINATED HYDROCARBON		0
TEXTURE LIFE	PETROLEUM DISTILLATES	l GAL 6 GAL	9 1
CDEE DEE	A DOMATTC HYDDOCA DDONG	20 GAL	
CMY DDI	AROMATIC HYDROCARBONS PETROLEUM DISTILLATES	1 GAL	17
SUNSHINE FRESH	PETROLEUM DISTILLATES	1 CAN	24
BONDIIINE ENBOII			4
WETSPOT			
	AMMONIA		
CALED SIGNAL CHEMICAL IN	C.		
DDIMO CIOR DENIMO MEV			
	PETROLEUM SOLVENT		7
	PERCHLOROETHYLENE PETROLEUM HYDROCARBONS	I GAL	,
CAL SPRAY	1,1,1 TRICHLOROETHENE	1 GAT.	20
CAB SIKAI	PETROLEUM HYDROCARBONS	I GAL	20
CAL SPRAY SPOTTER	2-BUTOXY ETHANOI.	1 GAL	19
	PETROLEUM SOLVENT	20 GAL	2
	PETROLEUM HYDROCARBONS		2
CAL STRIP/ PURPLE MAGIC	TITANIUM SULFATE	1 GAL	24
	2-BUTOXY ETHANOL		11
	PETROLEUM SOLVENT		
C W T	ALKYL DIMETHYL BENZYL	1 GAL	8
	AMMONIUM CHLORIDE		
FAST PR/ VDS	1,1,1 TRICHLOROETHENE	1 GAL	30
FWT/ SIGNAL 33	SODIUM HYDROXIDE	1 GAL	
		20 GAL	
KMIK	PETROLEUM HYDROCARBONS	l GAL	11
	2-BUTOXY ETHANOL		
	AMYL ACETATE	_	_
LONG LIFE	PETROLEUM HYDROCARBONS	1 GAL	
NU TOUCH	2-BUTOXY ETHANOL	30 GAL	
PLASTICIZER	DI-N-BUTYL PHTHALATE	1 GAL	
PRO-TE-CAL	HEXYLENE	1 GAL	
STAT II	PETROLEUM HYDROCARBONS	1 GAL	13

^{*} THESE ITEMS WERE REMOVED AT CLOSING

PRODUCT NAME	HAZARDÕUS SUBSTANCES	CONTAINER CLOSING SIZE INVENTO	
TAN-E-CAL/ TANPAN TEX SURE VEL-ODOR	LACTIC ACID PETROLEUM HYDROCARBONS ISOPROPONAL	20 GAL 1 GAL 1 GAL 1 GAL	12
DIAMOND SHAMROCK CHEMICA	LS COMPANY		333333
ISP FABRIC BRIGHTENER	HYDROGEN PEROXIDE	5 GAL	
TEX-FLUFF W/ BAC-STAT CLIPPER CLEANER	AMMONIUM SALTS & OILS METHYLENE CHLORIDE	30 GAL 30 GAL 5 GAL	4 2 8
LAIDLAW INC.			
	HYDROCARBONS SURFACTANTS PETROLEUM, CHLORINATED		17 6 20
U-SAN-O WALLER STAT-ANTI STAT	PETROLEUM DISTILLATE	l GAL l GAL	19 11
R. R. STREET & CO. INC.			
DRY SIZE PICRIN	PETROLEUM ODOR CHLORINATED HYDROCARBON	1 GAL 1 GAL 15 GAL	8 16 2
PYRATEX REP 100 STATICOL	HYDROGEN CHLORIDE	1 GAL 1 GAL 1 GAL 15 GAL	51 21 50 6
STREEPENE FORMULA 209	SULFUR DIOXIDE CARBON DIOXIDE CARBON MONOXIDE	55 GAL 1 LB JAR 1 PINT	·-
STREETEX	CO2, CO, SO2, SO3 HYDROGEN CHLORIDE	15 GAL	5
	nibrogen Cheokide	1 PIN1	
STAIN-A-WAY	ISOPROPAL ALCOHOL SODIUM BIFLOURIDE HYDROCHLORIC ACID	1 GAL	
U. N. X. CHEMICALS INC.			
ALKALAIA	SODIUM HYDROXIDE SODIUM METASILICATE	100	6
PEAK	SODIUM METASILICATE SODIUM HYDROXIDE SODIUM METASILICATE	100	5

^{*} THESE ITEMS WERE REMOVED AT CLOSING

PRODUCT NAME	HAZA	RDOUS SUBSTANCES	CONTAINER SIZE	CLOSING INVENTORY *
BID	SODIU	M HYDROXIDE	50	27
	SODIU	M METASILICATE		
SUPREME	PERCA	RBONATE	40 #	1 9
TEK		M HYDROXIDE	100	9
		M METASILICATE		
SOLVENT-SPECIAL	SODIU	M HYDROXIDE	100	15
		M METASILICATE		
SUPER-BRIGHT	TRICH	LOROISOCYANURIC ACID LOROISOCYANURIC ACID LOROISOCYANURIC ACID	100	1
BRIGHT-X-20	TRICH	LOROISOCYANURIC ACID	100	16
DRY BLEACH SPECIAL	TRICH	LOROISOCYANURIC ACIE	100	3
FOREMOST			40 LB	4
FLOUR-O-CIDE		M SILICOFLOURIDE		3
SOUR-CIDE	SODIU	M SILICOFLOURIDE	100	10
TRUST		GEN PEROXIDE		5
SOFT-BRITE LIQUID	PHOSP	HORIC ACID	5 GAL	7
				TO
MATERIAL	QUANTITY	LOCATION	STORAGE METH	OD REMAIN?
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
PERCHLOROETHYLENE	4000 GAL	EAST OF BUILDING	4000 ABOVE O	
FUEL OIL	UNK.	S.EAST OF BUILDING		

^{*} THESE ITEMS WERE REMOVED AT CLOSING

APPENDIX 6

DECONTAMINATION PROCEDURE

Biddelman Incorporated closed the facility on January 1, 1986, pending approval of a negative declaration affidavit. At that time Biddelman Inc. removed its entire operation.

The decommission plan includes the removal of all inventory and equipment in the building. No hazardous materials will remain at the site. As mentioned before, the above ground tank has already been removed from the site. A detailed description of the excavation and clean-up will be included in the Site Clean-up Report for this facility.

The underground tank will be excavated and removed and the absence of contamination will be established through similar horizontal and vertical sampling delineations that will be used for the above ground tanks. Again, a detailed description of this will be included in the site clean-up report.



State of New Jersey Department of Environmental Protection and Energy

Division of Responsible Party Site Remediation Metro Regional Office 2 Babcock Place West Orange, NJ 07052

Scott A. Weiner Commissioner

Karl J. Delaney Director

November 9,1993

Personalized Letter Service & Sales Co., Inc. 4 Central Avenue
West Orange, New Jersey 07052

Att: Richard A. Praitano, Owner

Sub: Voluntary Cleanup Program for

Remedial Investigation/Actions Performed

At Biddleman Inc. 4 Central Avenue

West Orange, Essex County DRPSR Case# 90-08-29-SP01M

Dear Mr. Priatano:

The purpose of this correspondence is inform you that the above referenced location has been returned to this office as a potential site for the Department's Voluntary Cleanup Program (see attached). Also maintained by this office is the information which you recently submitted to Lynn Fleming at the Bureau of State Case Management.

At this time the Department wishes to offer you the opportunity to enter into its Voluntary Cleanup Program for the evaluation of the previously performed investigations and actions at the location. Participation in the Department's Voluntary Cleanup Program is the mechanism by which the Department can evaluation and comment on the actions previously performed at the site.

If you wish to participate in the Voluntary Cleanup Program, please complete and submit the enclosed Memorandum of Agreement application to this office. If a response is not received within thirty (30) days from the date of this letter, the Department will assume that you do not wish to participate in the program. If you choose not to participate, your site will be prioritized and subject to potential remediation under and Administrative Consent Order when the site becomes a priority to the Department.

If you have any questions concerning the contents of this letter or the Voluntary Cleanup Program, please contact me at (201) 669-3960.

Sincerely,

Gary Greulich

Senior Environmental Specialist

cc: File

Personalized Letter Service & Sales Co., Inc.

Established 1946

4 Central Avenue • West Orange, New Jersey 07052 • (201) 677-6080 • Fax: (201) 677-7529

October 9, 1993

RE: Biddleman Property, 4 Central Ave., West Orange

Dear Ms. Fleming,

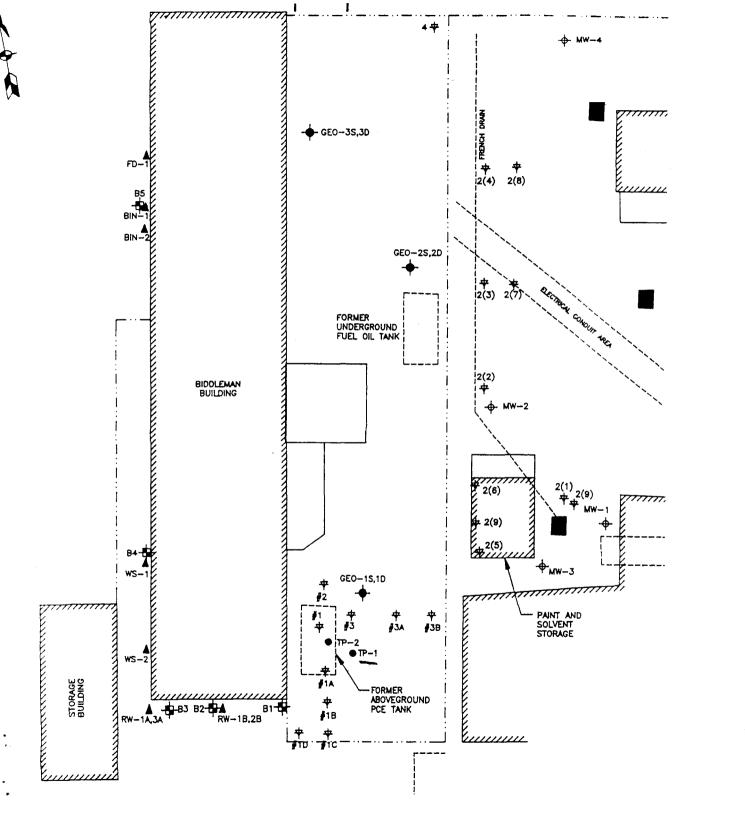
Here are the new Geo's that we discussed the other day. I hope these stat's will be helpful in order to expedite this clean up.

Please call me when you have an answer to whether this is applicable.

Thank you.

Sincerely,

Richard A. Praitano





SAMPLE DESCRIPTION INFORMATION for GEO Engineering

			Samp	led	Received
Lab ID	Client ID	Matrix	Date	Time	Date
027587-0001-SA	GEO-3D				01 MAR 93
027587-0002-SA	GEO-2D	AQUEOUS	D1 MAR 9	3 12:05	01 MAR 93
027587-0002-RE	GEO-2D	AQUEOUS (D1 MAR 9	3 12:05	01 MAR 93
027587-0003-SA	GEO-1D	AQUEOUS (01 MAR 9	3 12:23	01 MAR 93
027587-0004-FB	FIELD BLANK	AQUEOUS (01 MAR 9	3 11:55	01 MAR 93
027587-0004-RE	FIELD BLANK	AQUEOUS (01 MAR 9	3 11:55	01 MAR 93
027587-0005-TB	TRIP BLANK	AQUEOUS (01 MAR 9	3	01 MAR 93



Priority Pollutant Volatile Organics

Method 624

Client Name: GEO Engineering

Client ID: GEO

GEO-3D

Lab ID: 027587-0001-SA

Matrix: AQUEOUS Authorized: 01 MAR 93 Sampled: 01 MAR 93 Prepared: NA

Received: 01 MAR 93 Analyzed: 05 MAR 93

Parameter	Result	Units	Reporting Limit	
Chloromethane	ND	ug/L	50	u
Bromomethane	ND	ug/L	50	
Vinyl Chloride	ND	ug/L	50	
Chloroethane	ND	ug/L	50	
Methylene chloride	ND	ug/L	25	
1,1-Dichloroethene	ND	ug/L	25	
1,1-Dichloroethane	ND	ug/L	25	
1,2-Dichloroethene		3,		
(cis/trans)	330	ug/L	25	
Chloroform	ND	uğ/L	25	
1,2-Dichloroethane	ND	ug/L	25	
1,1,1-Trichloroethane	ND	ug/L	25	
Carbon tetrachloride	ND	ug/L	25	
Bromodichloromethane	ND	ug/L	25	
1,2-Dichloropropane	ND	ug/L	25	
trans-1,3-Dichloropropene	ND	ug/L	25	
Trichloroethene	38	ug/L	25	
Dibromochloromethane	ND	ug/L	25	
1,1,2-Trichloroethane	ND	uğ/L	25	
Benzene	ND	ug/L	25	
cis-1,3-Dichloropropene	ND	ug/L	25	
2-Chloroethylvinylether	ND	ug/L	50	
Bromoform	ND	ug/L	25	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	
Tetrachloroethene	150	ug/L	25	
Toluene	ND	ug/L	25	
Chlorobenzene	ND	ug/L	25	
Ethylbenzene	ND	ug/L	25	
Surrogate	Recovery			
Toluene-d8	101	%		
4-Bromofluorobenzene	98	%		
1,2-Dichloroethane-d4	113	%		

Note u : All reporting limits raised due to high levels of target analytes.

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar



Volatiles Library Search (10 Compound TID)

Method 624

Client Name: GEO Engineering

Client ID: GEO-3D

Lab ID: 027587-0001-SA

Matrix: AQUEOUS Sampled: 01 MAR 93 Authorized: 01 MAR 93 Prepared: NA Received: 01 MAR 93 Analyzed: 05 MAR 93

Parameter		Result	Units	Reporting Limit
TID Compound TID Compound TID Compound TID Compound TID Compound TID Compound TID Compound TID Compound TID Compound	2 3 4 5 6 7 8 9	ND ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar

Priority Pollutant Volatile Organics

Method 624

Client Name: GEO'Engineering

Client ID: GEO-2D

027587-0002-SA Lab ID:

Sampled: 01 MAR 93 Received: 01 MAR 93 AQUEOUS Matrix: Prepared: NA Analyzed: 05 MAR 93 Authorized: 01 MAR 93

			Reporting	
Parameter	Result	Units	Limit	
Chloromethane	ND	ug/L	50	u
Bromomethane	ND	ug/L	50	
Vinyl Chloride	ND	ug/L	50	
Chloroethane	ND	ug/L	50	
Methylene chloride	ND	ug/L	25	
l,l-Dichloroethene	ND	ug/L	25	
1,1-Dichloroethane	ND	ug/L	25	
1,2-Dichloroethene				
(cis/trans)	640	ug/L	25	
Chloroform	ND	ug/L	25	
1,2-Dichloroethane	ND	ug/L	25	
1,1,1-Trichloroethane	ND	ug/L	25	
Carbon tetrachloride	ND	ug/L	25	
Bromodichloromethane	ND	ug/L	25	
1,2-Dichloropropane	ND	ug/L	25	
trans-1,3-Dichloropropene	ND	ug/L	25	
Trichloroethene .	160	ug/L	25	
Dibromochloromethane	ND	ug/L	25	
1,1,2-Trichloroethane	ND	ug/L	25	
Benzene	11	ug/L	25	J
cis-1,3-Dichloropropene	ND	ug/L	25	
2-Chloroethylvinylether	ND	ug/L	50	
Bromoform	ND	ug/L	25	
1,1,2,2-Tetrachloroethane	ND	ug/L	25	
Tetrachloroethene	650	ug/L	25	
Toluene	ND	ug/L	25	
Chlorobenzene	ND	ug/L	25	
Ethylbenzene	ND	ug/L	25	
Surrogate	Recovery			
Toluene-d8	98	%		
4-Bromofluorobenzene	106	%		
1,2-Dichloroethane-d4	108	%		

Note u : All reporting limits raised due to high levels of target

analytes.

Note J: Result is detected below the reporting limit or is an

estimated concentration.

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar



Volatiles Library Search (10 Compound TID)

Method 624

Client Name: GEO Engineering Client ID: GEO-2D

r

Lab ID: 027587-0002-SA

Sampled: 01 MAR 93 Prepared: NA Received: 01 MAR 93 Analyzed: 05 MAR 93 Matrix: **AQUEOUS** Authorized: 01 MAR 93

Parameter	Result	Units	Reporting Limit
TID Compound 1	ND	ug/L	
TID Compound 2	ND	ug/L	
TID Compound 3 TID Compound 4	ND ND	ug/L ug/L	
TID Compound 5	ND	ug/L	
TID Compound 6	ND	ug/L	
TID Compound 7	ND	ug/L	
TID Compound 8	ND	ug/L	
TID Compound 9	ND	ug/L	
TID Compound 10	ND	ug/L	

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar



Priority Pollutant Volatile Organics

Method 624

Client Name: GEO Engineering Client ID: GEO-1D'

Client ID:

Lab ID: 027587-0003-SA

Received: 01 MAR 93 AQUEOUS Sampled: 01 MAR 93 Matrix: Authorized: 01 MAR 93 Analyzed: 05 MAR 93 Prepared: NA

Parameter	Result	Units	Reporting Limit	
1 di dilicoci				
Chloromethane	ND	ug/L	100	u
Bromomethane	ND	ug/L	100	
Vinyl Chloride	260	ug/L	100	
Chloroethane	ND	ug/L	100	
Methylene chloride	ND	ug/L	50	
1,1-Dichloroethene	ND	ug/L	50	
1,1-Dichloroethane	ND	ug/L	50	
1,2-Dichloroethene				
(cis/trans)	850	ug/L	50	
Chloroform	ND	ug/L	50	
1,2-Dichloroethane	ND	ug/L	50	
1,1,1-Trichloroethane	ND	ug/L	50	
Carbon tetrachloride	ND	ug/L	50	
Bromodichloromethane	ND	ug/L	50	
1,2-Dichloropropane	ND	ug/L	50	
trans-1,3-Dichloropropene	ND	ug/L	50	
Trichloroethene	180	ug/L	50	
Dibromochloromethane	ND	ug/L	50	
1,1,2-Trichloroethane	ND	ug/L	50	
Benzene	ND	ug/L	50	
cis-1,3-Dichloropropene	ND	ug/L	50	
2-Chloroethylvinylether	ND	ug/L	100	
Bromoform	ND	ug/L	50	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	
Tetrachloroethene	340	ug/L	50	
Toluene	ND	ug/L	50	
Chlorobenzene	ND	ug/L	50	
Ethylbenzene	ND	ug/L	50	
Surrogate	Recovery			
Toluene-d8	98	%		
4-Bromofluorobenzene	103	%		
1,2-Dichloroethane-d4	109	%		

Note u : All reporting limits raised due to high levels of target analytes.

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar

Volatiles Library Search (10 Compound TID)

Method 624

Client Name: GEO Engineering

Client ID: GEO-1D

Lab ID: 027587-0003-SA

Matrix: AQUEOUS Sampled: 01 MAR 93 Received: 01 MAR 93 Authorized: 01 MAR 93 Prepared: NA Analyzed: 05 MAR 93

Parameter	Result	Units	Reporting Limit	
C-3 Benzene	80	ug/L		J
C-4 Benzene	30	ug/L		J
Unknown	30	ug/L		J
TID Compound 4	ND	ug/L		
TID Compound 5	ND	ug/L		
TID Compound 6	ND	ug/L		
TID Compound 7	ND	ug/L		
TID Compound 8	ND	ug/L		
TID Compound 9	ND	ug/L		
TID Compound 10	ND	ug/L		

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

Reported By: Jyoti Kumar



Priority Pollutant Base/Neutral Organics

Method 625

Client Name: GEO Engineering

Client ID:

GEO'-2D

Lab ID: 027587-0002-SA

Matrix: **AQUEOUS** Authorized: 01 MAR 93

Sampled: 01 MAR 93 Prepared: 03 MAR 93

Received: 01 MAR 93 Analyzed: 08 MAR 93

Parameter	Result	Units	Reporting Limit	
bis(2-Chloroethyl) ether 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	ND ND ND ND	ug/L ug/L ug/L ug/L	10 10 10 10	
bis(2-Chloroisopropyl) ether	ND	ug/L	10	
N-Nitroso-di- n-propylamine	ND	ug/L	10	
Hexachloroethane	ND	ug/L	10	
Nitrobenzene Isophorone	ND ND	ug/L ug/L	10 10	
bis(2-Chloroethoxy)-	NO	ug/ L	10	
methane	ND	ug/L	10	
1,2,4-Trichlorobenzene	ND	ug/L	10	•
Naphthalene Hexachlorobutadiene	1.2 ND	ug/L ug/L	10 10	J
Hexachlorocyclo-	NO	ug/L	10	
pentadiene	ND	ug/L	10	
2-Chloronaphthalene	ND	ug/L	10	
Dimethyl phthalate	ND	ug/L	10	
Acenaphthylene	ND ND	ug/L	10 10	
Acenaphthene 2,4-Dinitrotoluene	ND ND	ug/L ug/L	10	
2,6-Dinitrotoluene	ND	ug/L ug/L	10	
Diethyl phthalate	ND	ug/L	10	
4-Chlorophenyl		3.		
phenyl ether	ND	ug/L	10	
Fluorene	ND	ug/L	10	
N-Nitrosodiphenylamine 4-Bromophenyl	ND	ug/L	10	
phenyl ether	ND	ug/L	10	
Hexachlorobenzene	ND	ug/L	10	
Phenanthrene	5.4	ug/L	10	J
Anthracene	ND	ug/L	10	
Di-n-butyl phthalate	ND	ug/L	10	
Fluoranthene	ИD	ug/L	10	
Pyrene Putul bonzul obthalato	ND ND	ug/L	10 10	
Butyl benzyl phthalate 3,3'-Dichlorobenzidine	ND ND	ug/L ug/L	20	
Benzo(a) anthracene	ND	ug/L ug/L	10	

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: David Ercoliani



Priority Pollutant Base/Neutral Organics (CONT.)

Method 625

Client Name: GEO, Engineering

Client ID: GEO-2D

Lab ID: 027587-0002-SA

Matrix: AQUEOUS Sampled: 01 MAR 93 Received: 01 MAR 93 Authorized: 01 MAR 93 Prepared: 03 MAR 93 Analyzed: 08 MAR 93

Parameter	Result	Units	Reporting Limit
bis(2-Ethylhexyl) phthalate Chrysene Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND	ug/L	10
	ND	ug/L	10
Surrogate	Recovery		
Nitrobenzene-d5	44	%	
2-Fluorobiphenyl	49	%	
Terphenyl-d14	44	%	

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

Reported By: David Ercoliani



Semivolatiles Library Search (15 Compound ID)

Method 625

Client Name: GEO Engineering

Client ID: GEO-2D

Lab ID: 027587-0002-SA

Matrix: AQUEOUS Authorized: 01 MAR 93 Sampled: 01 MAR 93 Prepared: NA

Received: 01 MAR 93 Analyzed: 08 MAR 93

Parameter Result Units Limit

rarameter		Vezaic	Ulific
TID Compound	2 3 4 5 6 7 8 9 10 11 12 13	ND ND ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TID Compound	15	ND	ug/L

ND = Not detected NA = Not applicable

Reported By: David Ercoliani

Priority Pollutant Base/Neutral Organics

Method 625

Client Name: GEO, Engineering

Client ID: GEO-2D

Lab ID: 027587-0002-RE

Matrix: AQUEOUS Sampled: 01 MAR 93 Received: 01 MAR 93 Authorized: 01 MAR 93 Prepared: 10 MAR 93 Analyzed: 12 MAR 93

Parameter	Result	Units	Reporting Limit	
bis(2-Chloroethyl) ether	ND	ug/L	10	
1,3-Dichlorobenzene	ND	ug/L	10	
1,4-Dichlorobenzene	ND	ug/L	10	
1,2-Dichlorobenzene	ND	ug/L	10	
bis(2-Chloroisopropyl)				
ether	ND	ug/L	10	
N-Nitroso-di-				
n-propylamine	ND	ug/L	10	
Hexachloroethane	ND	ug/L	10	
Nitrobenzene	ND	ug/L	10	
Isophorone	ND	ug/L	10	
bis(2-Chloroethoxy)-		_		
methane	ND	ug/L	10	
1,2,4-Trichlorobenzene	ND	ug/L	10	
Naphthalene	ND	ug/L	10	
Hexachlorobutadiene	ND	ug/L	10	
Hexachlorocyclo-			• •	
pentadiene	ND	ug/L	10	
2-Chloronaphthalene	ND	ug/L	10	
Dimethyl phthalate	ND	ug/L	10	
Acenaphthylene	ND	ug/L	10	
Acenaphthene	ND	ug/L	10	
2,4-Dinitrotoluene	ND	ug/L	10	
2,6-Dinitrotoluene	ND	ug/L	10	
Diethyl phthalate	ND	ug/L	10	
4-Chlorophenyl			• •	
phenyl ether	ND	ug/L	10	
Fluorene	ND	ug/L	10	
N-Nitrosodiphenylamine	ND	ug/L	10	
4-Bromophenyl	AID.	(1	10	
phenyl ether	ND	ug/L	10	
Hexachlorobenzene	ND	ug/L	10	,
Phenanthrene	4.5	ug/L	10	J
Anthracene	ND	ug/L	10	
Di-n-butyl phthalate	ND	ug/L	10	
Fluoranthene	ND	ug/L	10	
Pyrene	ND	ug/L	10	
Butyl benzyl phthalate	ND	ug/L	10	
3,3'-Dichlorobenzidine	ND	ug/L	20	
Benzo(a)anthracene	ND	ug/L	10	

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Stacey Miller



Priority Pollutant Base/Neutral Organics (CONT.)

Method 625

Client Name: GEO Engineering Client ID: GEO-2D

Lab ID:

027587-0002-RE

Matrix:

AQUEOUS Authorized: 01 MAR 93

Sampled: 01 MAR 93 Prepared: 10 MAR 93 Received: 01 MAR 93

Analyzed: 12 MAR 93

Parameter	Result	Units	Reporting Limit
bis(2-Ethylhexyl) phthalate Chrysene Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 10 10 10 10 10 10
Surrogate	Recovery		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	43 50 50	% % %	

Note J: Result is detected below the reporting limit or is an

estimated concentration.

ND = Not detected NA = Not applicable

Reported By: Stacey Miller



Base/Neutrals Library Search (15 Compound TID)

Method 625

Client Name: GEO Engineering

Client ID:

Authorized:

GEO-2D

Lab ID:

027587-0002-RE

Matrix:

AQUEOUS

01 MAR 93

Sampled: 01 MAR 93 Prepared: NA

Received: 01 MAR 93 Analyzed: 12 MAR 93

			Reporting	
Parameter	Result	Units	Limit	
Tetrachloroethene	36	ug/L		J
Unknown	5.0	ug/L		J
Unknown Amide	4.0	ug/L		J
TID Compound 4	ND	ug/L		
TID Compound 5	ND	ug/L		
TID Compound 6	ND	ug/L		
TID Compound 7	ND	ug/L		
TID Compound 8	ND	ug/L		
TID Compound 9	ND	ug/L		
TID Compound 10	ND	ug/L		
TID Compound 11	ND	uğ/L		
TID Compound 12	ND	ug/L		
TID Compound 13	ND	ug/L		
TID Compound 14	ND	ug/L		
TID Compound 15	ND	ug/L		

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

Reported By: Stacey Miller



SAMPLE DESCRIPTION INFORMATION for GEO Engineering

Lab ID	Client ID	Matrix	Sampl Date	ed Time	Received Date
027612-0001-SA 027612-0002-SA 027612-0003-SA 027612-0004-FB	TP-2B TP-2C	SOIL SOIL SOIL AQUEOUS	03 MAR 93	11:00 11:15	04 MAR 93 04 MAR 93 04 MAR 93 04 MAR 93



Priority Pollutant Volatile Organics

Method 8240

Client Name: GEO Engineering

Client ID: TP-1C

Lab ID: 027612-0001-SA

Matrix: SOIL Sampled: 03 MAR 93 Received: 04 MAR 93 Authorized: 04 MAR 93 Prepared: 05 MAR 93 Analyzed: 05 MAR 93

		Dry Weight	Reporting	
Parameter	Result	Units	Limit	
Chloromethane	ND	ug/kg	1200	u
Bromomethane	ND	ug/kg	1200	
Vinyl Chloride	ND	ug/kg	1200	
Chloroethane	ND	ug/kg	1200	
Methylene chloride	ND	ug/kg	580	
l,l-Dichloroethene	ND	ug/kg	580	
1,1-Dichloroethane	ND	ug/kg	580	
1,2-Dichloroethene				_
(cis/trans)	200	ug/kg	580	J
Chloroform	ND	ug/kg	580	
1,2-Dichloroethane	ND	ug/kg	580	
1,1,1-Trichloroethane	ND	ug/kg	580	
Carbon tetrachloride	ND	ug/kg	580	
Bromodichloromethane	ND	ug/kg	580	
1,2-Dichloropropane	ND	ug/kg	580	
trans-1,3-Dichloropropene	ND	ug/kg	580	
Trichloroethene	580	ug/kg	580	
Dibromochloromethane	ND	ug/kg	580	
1,1,2-Trichloroethane	ND	ug/kg	580	
Benzene	ND	ug/kg	580	
cis-1,3-Dichloropropene	ND	ug/kg	580	
2-Chloroethylvinylether	ND	ug/kg	1200	
Bromoform	ND	ug/kg	580	
1,1,2,2-Tetrachloroethane	ND	ug/kg	580	_
Tetrachloroethene	16000	ug/kg	580	В
Toluene	ND	ug/kg	580	
Chlorobenzene	ND	ug/kg	580	
Ethylbenzene	ND	ug/kg	580	
Surrogate	Recovery	,		
Toluene-d8	113	*		
4-Bromofluorobenzene	112	*		
1,2-Dichloroethane-d4	109	*		

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Joe Dininno



Volatiles Library Search (10 Compound TID)

Method 8240

Client Name: GEO Engineering Client ID: TP-1C

Lab ID:

027612-0001-SA

Matrix:

SOIL

Authorized: 04 MAR 93

Prepared: NA

Sampled: 03 MAR 93

Received: 04 MAR 93

Analyzed: 05 MAR 93

Parameter	Result	Dry Weight Reporting Units Limit
Unknown TID Compound 2 TID Compound 3 TID Compound 4 TID Compound 5 TID Compound 6 TID Compound 7 TID Compound 8 TID Compound 9	1700 ND ND ND ND ND ND ND	ug/kg
TID Compound 10	ND	ugʻ/kg

Note J : Result is detected below the reporting limit or is an estimated concentration.

Percent Moisture is 14%. All results and limits are reported on a dry weight basis.

ND - Not detected NA - Not applicable

Reported By: Joe Dininno

Priority Pollutant Volatile Organics

Method 8240

Client Name: GEO Engineering

Client ID:

TP-2B

027612-0002-SA

Lab ID: Matrix: SOIL Authorized: 04 MAR 93

Sampled: 03 MAR 93 Prepared: 05 MAR 93 Received: 04 MAR 93 Analyzed: 05 MAR 93

Parameter	Result	Dry Weight Units	Reporting Limit	
Chloromethane	ND	ug/kg	1100	u
Bromomethane	ND	ug/kg	1100	
Vinyl Chloride	ND	ug/kg	1100	
Chloroethane	ND	ug/kg	1100	
Methylene chloride	ND	ug/kg	540	
1,1-Dichloroethene	ND	ug/kg	540	
1,1-Dichloroethane	ND	ug/kg	540	
1,2-Dichloroethene		<i>3,</i> 3		
(cis/trans)	ND	ug/kg	540	
Chloroform	ND	ug/kg	540	
1,2-Dichloroethane	ND	ug/kg	540	
1,1,1-Trichloroethane	ND	ug/kg	540	
Carbon tetrachloride	ND	ug/kg	540	
Bromodichloromethane	ND	ug/kg	540	
1,2-Dichloropropane	ND	ug/kg	540	
trans-1,3-Dichloropropene	ND	ug/kg	540	
Trichloroethene	ND	ug/kg	540	
Dibromochloromethane	ND	ug/kg	540	
1,1,2-Trichloroethane	ND	ug/kg	540	
Benzene	ND	ug/kg	540	
cis-1,3-Dichloropropene	ND	ug/kg	540	
2-Chloroethylvinylether	ND	ug/kg	1100	
Bromoform	ND	ug/kg	540	
1,1,2,2-Tetrachloroethane	ND	ug/kg	540	
Tetrachloroethene	3000	ug/kg	540	В
Toluene	ND	ug/kg	540	
Chlorobenzene	ND	ug/kg	540	
Ethylbenzene	ND	ug/kg	540	
Surrogate	Recovery			
Toluene-d8	113	*		
4-Bromofluorobenzene	112	*		
1,2-Dichloroethane-d4	109	*		

Note u : All reporting limits raised due to high levels of target analytes.

Percent Moisture is 7.9%. All results and limits are reported on a dry weight basis.

Note B: Compound is also detected in the blank.

ND = Not detected NA = Not applicable

Reported By: Joe Dininno



Volatiles Library Search (10 Compound TID)

Method 8240

Client Name: GEO Engineering

Client ID:

TP-2B

027612-0002-SA

Lab ID: Matrix:

SOIL

Authorized: 04 MAR 93

Sampled: 03 MAR 93 Prepared: NA

Received: 04 MAR 93

Analyzed: 05 MAR 93

Parameter		Result	Dry Weight Reporti Units Limit	
Unknown 1,2-Dichlord TID Compound	1 3 1 4 1 5 1 6 1 7 1 8 1 9	1400 130 ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J

Note J: Result is detected below the reporting limit or is an estimated concentration.

Percent Moisture is 7.9%. All results and limits are reported on a dry weight basis.

ND - Not detected NA = Not applicable

Reported By: Joe Dininno



Priority Pollutant Volatile Organics

Method 8240

Client Name: GEO Engineering

Client ID:

TP-2C

Lab ID: 027612-0003-SA

Matrix: Authorized: SOIL

04 MAR 93

Prepared: 05 MAR 93

Sampled: 03 MAR 93

Received: 04 MAR 93 Analyzed: 05 MAR 93

		Dry Weight	Reporting	
Parameter	Result	Units	Limit	
Chloromethane	ND	ug/kg	1200	u
Bromomethane	ND	ug/kg	1200	
Vinyl Chloride	ND	ug/kg	1200	
Chloroethane	ND	ug/kg	1200	
Methylene chloride	ND	ug/kg	580	
1,1-Dichloroethene	ND	ug/kg	580	
1,1-Dichloroethane	ND	ug/kg	580	
1,2-Dichloroethene		49/119	000	
(cis/trans)	ND	ug/kg	580	
Chloroform	ND	ug/kg	580	
1,2-Dichloroethane	ND	ug/kg	580	
1,1,1-Trichloroethane	ND	ug/kg	580	
Carbon tetrachloride	ND	ug/kg	580	
Bromodichloromethane	ND	ug/kg	580	
1,2-Dichloropropane	ND	ug/kg	580	
trans-1,3-Dichloropropene	ND	ug/kg	580	
Trichloroethene	220	ug/kg	580	J
Dibromochloromethane	ND	ug/kg	580	
1,1,2-Trichloroethane	ND	ug/kg	580	
Benzene	ND	ug/kg	580	
cis-1,3-Dichloropropene	ND	ug/kg	580	
2-Chloroethylvinylether	ND	ug/kg	1200	
Bromoform	ND	ug/kg	580	
1,1,2,2-Tetrachloroethane	ND	ug/kg	580	
Tetrachloroethene	13000	ug/kg	580	В
Toluene	ND	ug/kg	580	
Chlorobenzene	150	ug/kg	580	J
Ethylbenzene	ND	ug/kg	580	
Surrogate	Recovery			
Toluene-d8	113	x		
4-Bromofluorobenzene	118	*		
1,2-Dichloroethane-d4	109	*		

(continued on following page)

ND - Not detected NA - Not applicable

Reported By: Joe Dininno



Priority Pollutant Volatile Organics (CONT.)

Method 8240

Client Name: GEO Engineering

Client ID:

TP-2C

Lab ID:

027612-0003-SA

Matrix:

SOIL

Authorized: 04 MAR 93

Sampled: 03 MAR 93

Prepared: 05 MAR 93

Received: 04 MAR 93 Analyzed: 05 MAR 93

Note u : All reporting limits raised due to high levels of target analytes.

Percent Moisture is 14%. All results and limits are reported on a dry weight basis.

Note J: Result is detected below the reporting limit or is an

estimated concentration.

Note B : Compound is also detected in the blank.

ND - Not detected NA = Not applicable

Reported By: Joe Dininno



Volatiles Library Search (10 Compound TID)

Method 8240

Client Name: GEO Engineering

Client ID:

TP-2C

Lab ID:

027612-0003-SA

Matrix: Authorized: 04 MAR 93

SOIL

Sampled: 03 MAR 93 Prepared: NA

Received: 04 MAR 93 Analyzed: 05 MAR 93

orting imit
J

Note J: Result is detected below the reporting limit or is an estimated concentration.

Percent Moisture is 14%. All results and limits are reported on a dry weight basis.

ND = Not detected NA = Not applicable

Reported By: Joe Dininno



J

Priority Pollutant Volatile Organics

Method 8240

Client Name: GEO Engineering Client ID: FIELD BLANK Lab ID: 027612-0004-FB

Matrix: AQUEOUS Sampled: 03 MAR 93 Received: 04 MAR 93
Authorized: 04 MAR 93 Prepared: NA Analyzed: 08 MAR 93

Parameter	Result	Units	Reporting Limit	
	ND	/I	10	
Chloromethane	ND ND	ug/L	10	
Bromomethane	ND	ug/L	10	
Vinyl Chloride	ND	ug/L	10	
Chloroethane	ND	ug/L	5.0	
Methylene chloride	1.1	ug/L	5.0	•
1,1-Dichloroethene	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethene	410	44	E 0	
(cis/trans)	ND	ug/L	5.0	
Chloroform	ND	ug/L	5.0	
1,2-Dichloroethane	ND	ug/L	5.0	
1,1,1-Trichloroethane	ND	ug/L	5.0	
Carbon tetrachloride	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
1,2-Dichloropropane	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Trichloroethene	ND	ug/L	5.0	
Dibromochloromethane	ND	ug/L	5.0	
1,1,2-Trichloroethane	ND	ug/L	5.0	
Benzene	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
2-Chloroethylvinylether	ND	ug/L	10	
Bromoform	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	ND	ug/L	5.0	
Toluene	ND	ug/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
	_			
Surrogate	Recovery			
Toluene-d8	104	×		
4-Bromofluorobenzene	96	×		
TO ORDITADI ODCILCIIC	00	ũ		

98

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

1,2-Dichloroethane-d4

Reported By: Joe Dininno



Volatiles Library Search (10 Compound TID)

Method 8240

Client Name: GEO Engineering Client ID: FIELD BLANK Lab ID: 027612-0004-FB

Matrix: AQUEOUS Authorized: 04 MAR 93 Sampled: 03 MAR 93 Prepared: NA

Received: 04 MAR 93 Analyzed: 08 MAR 93

Parameter	Result	Units	Reporting Limit	
Unknown Acetone 2-Hexanone 4-Methyl-2-Pentanone TID Compound 5 TID Compound 6 TID Compound 7 TID Compound 8 TID Compound 9 TID Compound 10	7.0 6.5 1.9 1.1 ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L		J J J

Note J: Result is detected below the reporting limit or is an estimated concentration.

ND = Not detected NA = Not applicable

Reported By: Joe Dininno

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